

20020502.qrp v02\_n543.qrl.20020502

Date: Thu, 2 May 2002 19:03:04 EDT  
From: qrp-l@Lehigh.EDU  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: QRP-L digest 2543

QRP-L Digest 2543

Topics covered in this issue include:

- 1) [125874] Airport Transportation  
by "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>
- 2) [125875] unun 4:1 transformer design  
by Howard Rubin <hrubin1970@comcast.net>
- 3) [125876] Biasing MOS-FET  
by na5n@zianet.com
- 4) [125877] FT-817 Increased Yaesu Coupon  
by "N3BJ" <N3BJ@hotmail.com>
- 5) [125878] Yaesu FT817 For Sale \$450 Mint  
by "F. Graves" <fgraves@houston.rr.com>
- 6) [125879] Re: St. Louis Verticals  
by na5n@zianet.com
- 7) [125880] Rebuttal of a technical article, should be on the merits  
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 8) [125881] RE: Biasing MOS-FET  
by Nick Kennedy <nkennedy@tcainternet.com>
- 9) [125882] Getting ready for FDIIM  
by "w8diz" <w8diz@fpqrp.com>
- 10) [125883] Re: St. Louis Verticals  
by "Paul Christensen" <w9ac@arrl.net>
- 11) [125884] Re: St. Louis Verticals  
by Dave <wr3i@earthlink.net>
- 12) [125885] Re: St. Louis Verticals  
by "Mike Yetsko" <myetsko@insydesw.com>
- 13) [125886] Anderson Power Pole Connectors  
by "John Grow" <jgrow@sympatico.ca>
- 14) [125887] KITS: PS regulator board  
by Steven Weber <kd1jv@moose.ncia.net>
- 15) [125888] FT817 SOLD THANKS FOR INTEREST!  
by "F. Graves" <fgraves@houston.rr.com>
- 16) [125889] Anderson Pole Connectors  
by "KD5NWA" <KD5NWA@mbayona.com>
- 17) [125890] FS: 6 Bags of Neat stuff w/pics, Chokes, Toroids, meters, Cheep!  
by RLucch2098@aol.com
- 18) [125891] NEQRP CW Net, 2 May 2002, 8:30 PM EDT, 3.565 MHz  
by Chuck Ludinsky <cjl@mitre.org>
- 19) [125892] Re: A.R.C.I. Activity Report (long)

- by "Kenneth Evans" <w4du@attbi.com>
- 20) [125893] K1 two band module for 80/17m  
by "Tony Parks" <robert.parks11@gte.net>
- 21) [125894] K2 serial #1939 for sale  
by "Tony Parks" <robert.parks11@gte.net>
- 22) [125895] Re: Biasing MOS-FET  
by "Karl F. Larsen" <k5di@zianet.com>
- 23) [125896] The MSP430 - a QRP microcontroller?  
by "Leon Heller" <leon\_heller@hotmail.com>
- 24) [125897] FS: 38 Special Kit  
by "=?iso-8859-1?B?TthCUw==?" <n0bs@msn.com>
- 25) [125898] RE: cabinet sold  
by "Hartwell, Martin E, ALINF" <mehartwell@att.com>
- 26) [125899] free 20 meter dipole antenna  
by "Tony Parks" <robert.parks11@gte.net>
- 27) [125900] Test equipment for sale  
by "Peter Shores" <pshores@socal.rr.com>
- 28) [125901] RE: Rebuttal of a technical article, should be on the merits  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 29) [125902] RE: St. Louis Verticals  
by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
- 30) [125903] items for sale  
by "carl seyersdahl" <carlseye@tampabay.rr.com>
- 31) [125904] HF MOSfet amps - capacitance  
by "Glen Leinweber" <leinwebe@mcmail.cis.mcmaster.ca>
- 32) [125905] Bencher for sale  
by Bob Welch <p326@earthlink.net>
- 33) [125906] Virus Information  
by <jfox6@houston.rr.com>
- 34) [125907] Test equipment for sale  
by "Peter Shores" <pshores@socal.rr.com>
- 35) [125908] Test Equipment for sale  
by "Peter Shores" <pshores@socal.rr.com>
- 36) [125909] FS: Air Variable Caps, etc.  
by "Walter AG5P" <walter@accessus.net>
- 37) [125910] 80m PSK31 Warbler for sale  
by "Tony Parks" <robert.parks11@gte.net>
- 38) [125911] Flying Horse 2001 CD-ROM  
by "Ron Polityka" <wb3aal@fast.net>
- 39) [125912] [CONTEST] N2CQ QRP Contest Calendar - May 2002  
by "Ken Newman" <n2cq@dandy.net>

-----

Date: Wed, 1 May 2002 19:05:45 -0400  
From: "Henry Freedenberg" <henryf@quartz.gly.fsu.edu>  
To: qrp-l@lehigh.edu, fpqrp-l@mpna.com  
Subject: [125874] Airport Transportation

Message-ID: <3CD03C89.8612.3A83F4@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Content-description: Mail message body

14 days and counting. I am still trying to find a lift to the hotel from the airport on Wednesday afternoon/evening. I am supposed to be arriving on a Delta flight from Atlanta at 6:29 PM.

Anyone else arriving around this time and willing to share a ride?

It's too far to walk.

Tnx

Henry

-----  
Date: Wed, 01 May 2002 19:07:29 -0400  
From: Howard Rubin <hrubin1970@comcast.net>  
To: qrp-l@lehigh.edu  
Subject: [125875] unun 4:1 transformer design  
Message-ID: <NGBBIJLJALHNLHMDICMPCEHACEAA.hrubin1970@comcast.net>  
MIME-version: 1.0  
Content-type: text/plain; charset=iso-8859-1  
Content-transfer-encoding: 7BIT

Transformer winders --

I'm interested in winding my own 10.7 MHz and 455KHz broadband 4:1 transformers. The Handbook talks about using a ~850 permeability ferrite core and provides a circuit digram, but I can't find where the wire and core diameter are specified. I think #28 to #36 AWG would be appropriate (Wire-wrap wire OK?). How many bifiliar turns and the core dimension for each of the transformers? The Handbook also refers to a text by Sevick, "Transmission Line Transformers." Does anyone have this book and who might look up the details I'm missing here?

Any help would be greatly appreciated,  
Howard Rubin, N3FEL

-----

Date: Wed, 01 May 2002 23:42:46 GMT  
From: na5n@zianet.com  
To: qrp-1@lehigh.edu  
Subject: [125876] Biasing MOS-FET  
Message-ID: <20020501234246.27871.qmail@zianet.com>  
Mime-version: 1.0  
Content-type: text/plain; charset="us-ascii"

Karl F. Larsen writes:

> For CW where the signal is on or off, you should bias the devices  
> for no drain current in the off condition,

TRUE

> and drive the devices hard enough to saturate drain current when on.  
> This will result in the highest efficiency and of course, least power to >  
heating.

FALSE. This is one of the major points of yesterday's post. You want to AVOID driving a mosfet so hard that the drain current saturates, because in the case of the IRF510, you will suddenly be drawing 5-6 amps and your output load resistance drops to 0.4 ohms - making an impedance match to your 50-ohm filter network impossible. The 5-6A of drain current, even if only 10-20% of the RF cycle, raises your average drain current over rms by that same percentage, and lowers your efficiency by the same percentage. And with 5-6A flowing through the IRF510, even 10-20% of the time, is still a lot of power being converted to nothing but heat inside the IRF510. You want to avoid saturating the drain current at all costs.

Except, of course, in the case of Class E, which exploits operating the IRF510 in the saturated drain current region. But here, you are not driving the mosfet with a sinewave, but rather fairly narrow "pulses" to convert the 5-6A of drain current to the desired 1A average current. Actually, it ends up being less than that for efficiencies in the 80-90% range. But that is also due to doing business a bit different in the output filter and how one impedance matches the IRF510 to the 50-ohm filter. But in any case, you never drive a mosfet in class D, E or F with a sinewave.

> need a good filter on the output. If your using push-pull your filter job  
> is easier because even harmonics are very low.

TRUE. Filtering does need to be more precisely matched to a mosfet PA depending upon the exact class of operation it is in.

> I would be careful not to overdrive the amp and flat top.

Well, this is exactly my point, and seemingly opposite of what is said above about "driving the amp into the saturated drain current region." There is no way to avoid flat topping when you are in the saturation region.

This is not in any way an attack on Karl, but to emphasize and explain why a mosfet class c amplifier, being fed with a sine wave, should never be allowed to drive the mosfet into saturated drain current. This is a common mistake made by those trying to build mosfet PA's, and a major reason why the mosfet's go poof, or get extremely hot, or sound chirpy, because when you enter the saturated region, it's trying to draw almost everything your power supply has to offer. Even batteries can groan when the load changes from 1A to 5A almost instantaneously.

72, Paul NA5N

-----  
Date: Wed, 1 May 2002 19:50:25 -0400  
From: "N3BJ" <N3BJ@hotmail.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [125877] FT-817 Increased Yaesu Coupon  
Message-ID: <OE21xxf6YwMHm5WeHv000004a3a@hotmail.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Wonder if they can beat this at Dayton ??

>From the yahoo FT-817 group:

>From: "w4wb" <w4wb@a...>  
Date: Wed May 1, 2002 1:01 pm  
Subject: HOT NEWS - Yaesu increased the FT-817 Coupon

I just found out that Yaesu has added \$50 to the FT-817 coupon.

You can now buy an FT-817 from GigaParts ([www.gigaparts.com](http://www.gigaparts.com)) for just \$564 including free shipping! Other Yaesu dealers also have this added \$50 too.

72/73 de Barry - W4WB>

Alan, N3BJ

Bent Mountain, VA

-----  
Date: Wed, 1 May 2002 18:51:29 -0500  
From: "F. Graves" <fgraves@houston.rr.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [125878] Yaesu FT817 For Sale \$450 Mint  
Message-ID: <IDENLCOADMBKAFIEMJJNMEKFCAAA.fgraves@houston.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'm selling my FT817. Purchased about six months ago. Never outside. Like new, no scratches that I can see, and not used in last few months. Original Carton, manual, power cable, microphone and map -- exactly as purchased new. Original owner. No mods and never even used batteries. Always on current limited 3A Power supply. Was working perfect last time I used it. Used mostly on 20 CW with GP, Plenty of DX and then I got into other things and decide to sell while still like new.

I live near Houston in Spring, Texas and the call is K50X -- email for phone number. Buyer pays shipping costs preferred method.

I heard it's okay to post for sales here so I hope I'm not offending anyone.

Thanks and good DX,

Frank,

K50X

-----  
Date: Thu, 02 May 2002 00:07:56 GMT  
From: na5n@zianet.com  
To: david.gauding@bbs.galilei.com  
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [125879] Re: St. Louis Verticals  
Message-ID: <20020502000757.22978.qmail@zianet.com>  
Mime-version: 1.0  
Content-type: text/plain; charset="us-ascii"

My comment to this is ...

I have built several St. Louis Verticals over the years, with and without the W6MMA loading coil ... which incidentally is what TUNES the darn antenna since it is NOT a self-tuned antenna as the original article fully describes. I have used them on numerous "to the field" contests over the past several years, from our famous Area 51 and Mexican border QRPTTF's to a couple of FYBO's. I have also had many late-night 40M QSO's with Dave, NFOR himself with us both using St. Louis verticals, often times with Dave running 200mW. Nobody was digging anyone out of the mud. We have done several A-B antenna comparisons, with me switching between the St. Louis vertical and my G5RV up 35 feet, a Butterworth vertical, etc. Sure, the later antennas bring in a bit better signal, but a single S-unit difference at best.

The point is, the St. Louis vertical was never published to compete with a Force 12 or \$350 commercial vertical antenna. But if you want a vertical that costs you a few bucks that folds up into a tube to take virtually anywhere to get on the air easily, by golly it does that. I think Dave and the SLQS gang have made some very nice contributions to the QRP hobby, and have always been honest about it's capabilities and shortcomings. The St. Louis tuner and one of the St. Louis vertical antennas have allowed a lot of people to get on "in the field" very easily. I do think the article was a bit misleading in evaluating it, but that is the only comment I will make on that. But like Dave's main concern, I don't want anyone to think it is a poor choice to make if you want a simple, "to the field" type antenna. I have no idea how it "looks" if you model it with one of the current antenna programs, but I know empirically, they work. I don't blame Dave at all for defending the excellent contributions of many of the SLQS members over the years.

72, Paul NA5N

72, Paul NA5N

-----  
Date: Wed, 1 May 2002 19:12:14 -0500  
From: "Stuart Rohre" <rohre@arlut.utexas.edu>  
To: <qrp-1@Lehigh.EDU>  
Subject: [125880] Rebuttal of a technical article, should be on the merits  
Message-ID: <013301c1f16e\$031726b0\$4e100a0a@rohredt2000>

I think it would be better service to the list when a technical article is challenged, that it be done on technical merits, point by point made by the author, re whatever he published to THIS reflector. Attacking unrelated prior work of an author by association is inappropriate.

I think all authors have some papers better than others, especially in a HOBBY non refereed journal such as our QRP publications. (For those who may not know, a refereed journal takes a paper, sends it out to several serial reviewers, who critique it, and finally, after all the reviewers are satisfied, it MAY make it into publication.

Such a review process delays papers sent to IEEE (Electronic Professional group), for publication, as much as TWO years at the present time). Do we want to hear about possible new good ideas two years after someone has tried it?

We often do not have the personal resources to thoroughly test our ideas, and only sharing them will uncover whether they will stand the test of time.

Challenges to what appeared elsewhere should go as letters to the Editor of the other publication(s). Was the protest turned down as a letter to the Editor?

All I can remember of the 1999 ARCI paper was, it pointed out that the original vertical did not resonate on its own, which seems like a reasonable thing to bring up. In fact, I thought later verticals in the St. Louis series were developed for improving on the original, because of this resonance issue. I also thought there were some radial improvements made later.

Maybe I am misremembering, but others than Mr. Weiss raised questions to this list after the publication in QRPP as I recall.

I am sorry the original author feels slighted by QRP-ARCI past or present officers. If he has objections to the officers, he should rejoin as a member and vote for those he feels qualified. After all, those folks do not get paid to do all the jobs of getting a publication out in addition to their real lives. It is, after all, a hobby.

Even QST, with paid authors and editorial staff, has printed some Lulus of questionable information, like the time they let slip thru a statement that a clamp on current measuring device outside the coax could measure the SWR mismatch inside.

Of course, it only measured any shield imbalance induced currents of the outside, and none of the antenna current wholly contained inside the shield. My Thanks to ALL authors, and all editors, past editors, and helpers who keep all the Clubs and their publications going.

Discussion will winnow out the wheat from the chaff.

72,

Stuart K5KVH

-----  
Date: Wed, 1 May 2002 19:15:35 -0500  
From: Nick Kennedy <nkennedy@tcainternet.com>  
To: "'na5n@zianet.com'" <na5n@zianet.com>,



Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [125881] RE: Biasing MOS-FET  
Message-ID: <01C1F144.92CF16C0.nkennedy@tcainternet.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: na5n@zianet.com [SMTP:na5n@zianet.com]  
Sent: Wednesday, May 01, 2002 6:43 PM  
To: Low Power Amateur Radio Discussion  
Subject: Biasing MOS-FET

"You want to AVOID driving a mosfet so hard that the drain current saturates, because in the case of the IRF510, you will suddenly be drawing 5-6 amps and your output load resistance drops to 0.4 ohms - making an impedance match to your 50-ohm filter network impossible."

Hmmm ... I always thought you don't impedance match the output device to the load in Class C. And that to do so would reduce the efficiency to 50%. Or at least, restrict it to no greater than that value.

And if you don't drive the Class C amp such as its conduction is approximately a square wave, aren't you dwelling in the ohmic region you said you wanted to avoid?

72--Nick, WA5BDU

... confused in Arkansas

-----

Date: Wed, 1 May 2002 21:37:10 -0400  
From: "w8diz" <w8diz@fpqrp.com>  
To: <qrp-1@lehigh.edu>, <fpqrp-1@mpna.com>  
Subject: [125882] Getting ready for FDI  
Message-ID: <001c01c1f179\$e1315cd0\$79b41b41@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi All,

Like it says in the subject line...I'm getting ready...

The Flying Pig/NOGA "buildathon" is about full; about 30 builders will participate on Thursday late afternoon. All parts and tools are supplied. Even have "real NOGA" members available for consultation on the wattmeter.  
<http://www.qrparci.org/fdim64.html#thursday>

On Friday (vendor's night), the "Flying Pigs" will host a pork feast. All the pork you can eat (donations accepted). Expect this to start about 5 PM Friday, which will dovetail into Vendor's/Club night.

Also, I'll be bringing lot's of toroids and mixers and other parts for QRP builders. Also hope to show off the new PLL PCB.  
<http://kitsandparts.com>

Less than TWO WEEKS to go...I'm getting excited :-)  
Hope to meet many of you at the Arena and of course FDIM.

72 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ - Loveland, Ohio  
Clermont County - EM79uf - near Cincinnati; 39.218N - 84.305W  
SOC-8 DLQRPAG-1454 ARCI-10226 ARS-781 QRPL-1998 10X-9389 CATT-26  
FP#-1 <http://home.cinci.rr.com/w8diz> & <http://kitsandparts.com>

-----  
Date: Wed, 1 May 2002 20:25:23 -0400  
From: "Paul Christensen" <w9ac@arrl.net>  
To: <na5n@zianet.com>,  
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [125883] Re: St. Louis Verticals  
Message-ID: <006301c1f16f\$da7d6780\$7601a8c0@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

> running 200mW. Nobody was digging anyone out of the mud. We have done  
> several A-B antenna comparisons, with me switching between the St. Louis  
> vertical and my G5RV up 35 feet, a Butterworth vertical, etc. Sure, the  
> later antennas bring in a bit better signal, but a single S-unit  
difference  
> at best.

Like any other ground-mounted, base-fed vertical, the SLV's radiated efficiency is a function of the ground system beneath it. When camping, the

SLV is still my antenna of choice. I have no trouble deploying 24 radials of 24 AWG wire in less than ten minutes. With an adequate radial system, the SLV on 40-meters is easily capable of performance equal to a dipole at a quarter-wave in height...of course the SLV will have a much lower angle of radiation than the dipole and is not as good for distances up to 400 miles or so.

-Paul, W9AC

-----  
Date: Wed, 1 May 2002 20:29:38 -0400  
From: Dave <wr3i@earthlink.net>  
To: <w9ac@arrl.net>, <qrp-1@lehigh.edu>  
Subject: [125884] Re: St. Louis Verticals  
Message-ID: <E1734Ti-0001T6-00@gull.prod.itd.earthlink.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

Ok guys,  
=09Now I have to search the web to see what a St. Louis Vertical=  
is!  
Dave  
WR3I

----- Original message ----->  
From: Paul Christensen <w9ac@arrl.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Received: Wed, 1 May 2002 20:25:23 -0400  
Subject: Re: St. Louis Verticals

>> running 200mW. Nobody was digging anyone out of the mud. We=  
have done  
>> several A-B antenna comparisons, with me switching between the=  
St. Louis  
>> vertical and my G5RV up 35 feet, a Butterworth vertical, etc. =  
Sure, the  
>> later antennas bring in a bit better signal, but a single=  
S-unit  
>difference  
>> at best.

>Like any other ground-mounted, base-fed vertical, the SLV's=  
radiated

>efficiency is a function of the ground system beneath it. When=  
camping, the  
>SLV is still my antenna of choice. I have no trouble deploying=  
24 radials  
>of 24 AWG wire in less than ten minutes. With an adequate=  
radial system,  
>the SLV on 40-meters is easily capable of performance equal to a=  
dipole at a  
>quarter-wave in height...of course the SLV will have a much=  
lower angle of  
>radiation than the dipole and is not as good for distances up to=  
400 miles  
>or so.

>-Paul, W9AC

-----  
Date: Wed, 1 May 2002 20:51:55 -0400  
From: "Mike Yetzko" <myetzko@insydesw.com>  
To: <wr3i@earthlink.net>,  
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [125885] Re: St. Louis Verticals  
Message-ID: <002801c1f173\$9094f9e0\$0600a8c0@charter.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Oh, they're neat! Basically, a vertical pole with a wire up. 20 feet if  
you can. With a coil at the base.

Cheap. Easy to build. Easy to set up and take down. And works  
fairly well...

Mike

----- Original Message -----  
From: "Dave" <wr3i@earthlink.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Wednesday, May 01, 2002 8:29 PM  
Subject: Re: St. Louis Verticals

> Ok guys,  
> Now I have to search the web to see what a St. Louis Vertical is!

> Dave  
> WR3I  
>  
>  
>  
> ----- Original message ----->  
> From: Paul Christensen <w9ac@arrl.net>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Received: Wed, 1 May 2002 20:25:23 -0400  
> Subject: Re: St. Louis Verticals  
>  
> >> running 200mW. Nobody was digging anyone out of the mud. We have  
done  
> >> several A-B antenna comparisons, with me switching between the St.  
Louis  
> >> vertical and my G5RV up 35 feet, a Butterworth vertical, etc. Sure,  
the  
> >> later antennas bring in a bit better signal, but a single S-unit  
> >difference  
> >> at best.  
>  
> >Like any other ground-mounted, base-fed vertical, the SLV's radiated  
> >efficiency is a function of the ground system beneath it. When  
camping, the  
> >SLV is still my antenna of choice. I have no trouble deploying 24  
radials  
> >of 24 AWG wire in less than ten minutes. With an adequate radial  
system,  
> >the SLV on 40-meters is easily capable of performance equal to a dipole  
at a  
> >quarter-wave in height...of course the SLV will have a much lower angle  
of  
> >radiation than the dipole and is not as good for distances up to 400  
miles  
> >or so.  
>  
> >-Paul, W9AC  
>  
>  
>

-----  
Date: Wed, 1 May 2002 21:19:19 -0400  
From: "John Grow" <jgrow@sympatico.ca>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [125886] Anderson Power Pole Connectors

Message-ID: <015901c1f177\$623dbce0\$8377fea9@john>

Hello to the Group,

Which company had the Anderson Pole Pole Connectors on sale. There was a posting a few weeks back, and my system crashed, losing all my emails. Replies greatly appreciated.

Tnx,  
John

-----  
Date: Wed, 01 May 2002 22:30:08 -0400  
From: Steven Weber <kd1jv@moose.ncia.net>  
To: qrp-l@lehigh.edu  
Subject: [125887] KITS: PS regulator board  
Message-ID: <3.0.6.32.20020501223008.0079eeb0@mailhost.ncia.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

The boards for the variable output, variable current limit power supply regulator came in the other day and the kits are ready to start going out tomorrow. This is the first and last time I do a kit that needs a hefty heat sink! I had to wrap each and everyone in cardboard, so that the edges wouldn't tare through the mailer!

Looks like I have 5 complete kits left, anyone want one? (\$20.00)

Those of you who wanted just a blank board, Fred at FAR Circuits should now have them in stock. He's asking \$4.95 + shipping for the board. Ask for the KD1JV Power supply regulator board. farcir@ais.net or www.farcircuits.net

72,  
Steve, KD1JV  
"Melt Solder"  
White Mountains of New Hampshire  
<http://www.qsl.net/kd1jv/>

-----  
Date: Wed, 1 May 2002 21:21:45 -0500  
From: "F. Graves" <fgraves@houston.rr.com>  
To: <qrp-l@Lehigh.EDU>  
Subject: [125888] FT817 SOLD THANKS FOR INTEREST!

Message-ID: <IDENLCOADMBKAFIEMJJNMEKICAAA.fgraves@houston.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi --

Thanks to those that sent emails of interest. It sold almost right away.  
Sorry I haven't had a chance to get back to everyone yet. Best 73 and thanks  
for letting me post.

Frank, K50X

-----  
Date: Fri, 5 Apr 2002 21:58:20 -0600  
From: "KD5NWA" <KD5NWA@mbayona.com>  
To: "QRL-L" <qrp-l@Lehigh.EDU>  
Subject: [125889] Anderson Pole Connectors  
Message-ID: <003b01c1dd1f\$4b864560\$0100a8c0@seglio>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

If you get duplicates of this message, don't get mad, I am having email  
problems, and it's not sending out mail, so I have tried sending it several  
times.

<http://www.mcmelectronics.com/welcome.jhtml>

Search for Anderson, and you will find it, 5.99 for 10 pairs, I bought a ton  
of them, I'm going to be converting al my radio stuff to them.

Cecil  
KD5NWA

-----  
Date: Wed, 1 May 2002 23:02:11 EDT  
From: RLucch2098@aol.com  
To: baswaplist@foothill.net, qrp-l@lehigh.edu  
Subject: [125890] FS: 6 Bags of Neat stuff w/pics, Chokes, Toroids, meters, Cheep!

Message-ID: <197.65058cd.2a020633@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi Fellas;

I have for SALE:

1- bag of 120+ assorted chokes, most are 2.7, 153.3, 1.7, 146, 105, 42, 3.1uH & 4.0mH Price is \$20ppd>>

<A HREF="http://www.myradioroom.com/120asstchokes.jpg">  
<http://www.myradioroom.com/120asstchokes.jpg></A>

2- 56 chokes, marked #970, measure 1.04mH, Price is \$14.00ppd>>

<A HREF="http://www.myradioroom.com/56wwchokes.jpg">  
<http://www.myradioroom.com/56wwchokes.jpg></A>

3- 250+ Chokes , measure 3.3uH, all NOS, price \$12.00ppd>>

<A HREF="http://www.myradioroom.com/250chokes.jpg">  
<http://www.myradioroom.com/250chokes.jpg></A>

4- 12 miniature meters, 10 are RF/S type, 1 is Battery, 1- not marked. Great for small tuners , qrp, etc. These are pulls & 6 have built in bulbs. All have been tested with a VOM for meter movement only! Price is \$20ppd>>

<A HREF="http://www.myradioroom.com/12meters.jpg">  
<http://www.myradioroom.com/12meters.jpg></A>

5- 35 assorted wire wound Toroids/chokes, blanks, remove the wire & wind your own. Price is \$20.00>>

<A HREF="http://www.myradioroom.com/35toroids.jpg">  
<http://www.myradioroom.com/35toroids.jpg></A>

6- 200+ ferrite chokes. I measured a few at 1.0uH average, all are NOS, Price is \$12.00ppd>>

<A HREF="http://www.myradioroom.com/200chokes.jpg">  
<http://www.myradioroom.com/200chokes.jpg></A>

All buyers will receive a small bag of free goodies.

Thanks es 73....Rich WA2RQY (1961)

RLUCCH2098@aol.com

"Keep those heaters on"

-----

Date: Wed, 01 May 2002 23:01:01 -0400

From: Chuck Ludinsky <cjl@mitre.org>

To: neqrp@jonal.net, qrp-l@lehigh.edu

Subject: [125891] NEQRP CW Net, 2 May 2002, 8:30 PM EDT, 3.565 MHz



Message-ID: <3CD0ABED.DB389DC8@mitre.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The New England QRP Club's WQ1RP CW net meets again Thursday night, 2 May 2002, at 8:30 PM EDT (0030Z, 03 May 02) on or near 3.565 MHz. Net control operator for this week's session will be Ed, AB1CW, operating from Tyngsboro, MA.

Last week's net control operator was John, WB1HBE, operating from Chelmsford, MA. John reported the following check-ins:

AA1UE	Gary	Springfield, MA	229
K1CL	Chuck	Chelmsford, MA	599
AB8DF	Ed	Waterford, MI	449/QSB
K1RC	John	Dracut, MA	599
WB1HBE	John	Chelmsford, MA	net op

Thanks to everyone for QNI'ing. Stop by and say hello to Ed and everyone on the net this week.

72 DE K1CL,  
Chuck.

-----  
Date: Thu, 2 May 2002 05:07:32 +0100  
From: "Kenneth Evans" <w4du@attbi.com>  
To: "QRP-1" <qrp-1@Lehigh.EDU>  
Subject: [125892] Re: A.R.C.I. Activity Report (long)  
Message-ID: <005301c1f18e\$e2b446c0\$6601a8c0@attbi.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I remember the articles. One of Ade's points was that the SLV as a portable antenna would not be a good choice for use at the home station. Ade was especially concerned with new comers to the hobby that may try working with these types of antennas at their home station. At that location, it is worth the effort to take measures that are not always feasible with a portable antenna. The SLV serves it intended purpose well. Ade's articles revealed ways to significantly improve it in both portable and fixed environments. This is what amateur radio is about - exchanging ideas - even disagreeing on points.

At the time these articles were published, I was completing a term as QRP ARCI Secretary/Treasurer. Therefore I was included in dialogue on the issue. Even though there were a few (less than 5) complaints received by the Board, the merits of the complaints were discussed and it was decided no apology was needed. There was an offer was made for any one to write a differing view for publication in the Quarterly. No one has yet accepted. Differing opinions based on technical merits are welcome. It is unfortunate that people can take articles like Ade's as personal criticism. Any perceived criticism was of an antenna, not people or organizations. Contrary to some opinions on this list, there is no hidden agenda in QRP ARCI. It is simply a group of QRPers trying to promote the hobby and have fun.

I generally don't take this type of letter public. However, as a member of the QRP ARCI Board, I do feel the need provide a QRP ARCI perspective from an officer who was involved in this situation. The articles in question are technically sound and not a attack on anyone or any organization. There is no need for apologies to or from anyone.

72/3,  
Ken W4DU  
w4du@arrl.net  
QRP ARCI #696, GQRP, NOGA, FP #295, NORCAL, ARRL-Life

-----  
Date: Thu, 2 May 2002 05:16:52 -0500  
From: "Tony Parks" <robert.parks11@gte.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [125893] K1 two band module for 80/17m  
Message-ID: <000f01c1f1c2\$7bed8e40\$e412f143@3dse0>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a carefully built but untested K1 two-band module for 80/17m. Just do not think I will be using it and would let it go for \$25 plus shipping costs.

If anyone is interested please e-mail me directly.

Thanks,  
Tony Parks  
KB9YIG

-----  
Date: Thu, 2 May 2002 05:29:06 -0500  
From: "Tony Parks" <robert.parks11@gte.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [125894] K2 serial #1939 for sale  
Message-ID: <001d01c1f1c4\$311c3220\$e412f143@3dse0>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I am needing to sell my K2, serial #1939. It works well and is in like new condition. Options include K2AF2 (audio filter), KAT2 (antenna tuner), KI02 (serial IO interface) and KSB2 (SSB adapter). The KSB2 was carefully built but has not been installed and tested. Also included in the sale will be the serial interface cable, manuals for K2 and options, and a Radio Shack 21-1172D mic. Would like to get \$580 plus postage costs for all items above.

Thanks,  
Tony Parks  
KB9YIG

-----  
Date: Thu, 2 May 2002 05:45:03 -0600 (MDT)  
From: "Karl F. Larsen" <k5di@zianet.com>  
To: na5n@zianet.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [125895] Re: Biasing MOS-FET  
Message-ID: <Pine.LNX.4.44.0205020529510.1565-100000@Daisy.dog>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Let me address just one issue Paul.

On Wed, 1 May 2002 na5n@zianet.com wrote:

>  
> Karl F. Larsen writes:  
>  
> > For CW where the signal is on or off, you should bias the devices  
> > for no drain current in the off condition,  
>  
> TRUE

>  
> > and drive the devices hard enough to saturate drain current when on.  
> > This will result in the highest efficiency and of course, least power to >  
heating.  
>  
> FALSE. This is one of the major points of yesterday's post. You want to  
> AVOID driving a mosfet so hard that the drain current saturates, because  
> in the case of the IRF510, you will suddenly be drawing 5-6 amps and your  
> output load resistance drops to 0.4 ohms - making an impedance match to  
> your 50-ohm filter network impossible. The 5-6A of drain current, even  
> if only 10-20% of the RF cycle, raises your average drain current over  
> rms by that same percentage, and lowers your efficiency by the same  
> percentage. And with 5-6A flowing through the IRF510, even 10-20% of the  
> time, is still a lot of power being converted to nothing but heat inside  
> the IRF510. You want to avoid saturating the drain current at all costs.  
>

I agree that if you saturate a fet the current is a maximum amount  
the device can draw but this is a DC analysis of the output impedance.  
Looking at the RF impedance it's actually defined from the median  
impedance between cutoff which is very high and effective zero in  
saturation. Actually you need a set of load lines like we had in the old  
tube days. Might be fun to make them and see how they look.

If the IRF510 has a gate type response to it's input then it won't  
work very well in RF service. I'm pretty sure that's what the device  
is used for in the mass market.

Until we can get some AC analysis of this device I'm not ready to say that  
you can't match the IRF510 output because I'm doing that with my SMK-1 5  
watt amp which uses this device... and it works. Doesn't get hot at all.

--  
Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -  
<http://www.zianet.com/k5di/>

-----  
Date: Thu, 2 May 2002 12:30:59 +0100  
From: "Leon Heller" <leon\_heller@hotmail.com>  
To: "Low Power" <qrp-l@Lehigh.EDU>  
Subject: [125896] The MSP430 - a QRP microcontroller?  
Message-ID: <DAV20zpek0tJI52I0jY000047bc@hotmail.com>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I'm currently experimenting with the TI MSP430F110 microcontroller. It's the smallest (20-pins), of a 16-bit RISC ultra-low-power range and has many advantages over the PICs and AVR's that are usually used, such as cost, performance and architecture. TI are very liberal with free samples, I scrounged three of the SOWB devices (0.05" lead spacing) and three of the TSSOP devices (0.65 mm lead spacing) from them, delivered by FedEx to the UK in about four days. Lots of info. is available on the TI web site:

<http://www.ti.com>

They are flash devices, and programmable in-circuit via JTAG or RS-232. A low-cost JTAG programming adaptor is available, and IAR's full assembler development software is free from TI's web site. A limited C compiler is included, but the full compiler cost lots of \$\$\$.

I'm in the process of creating a page on my Geocities web site devoted to the device. It should be up in a day or two.

I've designed a little (75mm by 50mm) prototyping PCB for the chip, with a breadboard area. It is easily made at home - I've just made another two in the kitchen in about 25 minutes. It's single-sided with 10 wire links. The only SM device is the 430; all the other components are conventional through-hole, so it's very easy to construct. The schematic and artwork (LaserJet print file and image) will be on the web page.

73, Leon

Leon Heller, G1HSM [leon\\_heller@hotmail.com](mailto:leon_heller@hotmail.com)  
[http://www.geocities.com/leon\\_heller](http://www.geocities.com/leon_heller)  
Low-cost Altera Flex design kit: <http://www.leonheller.com>

-----  
Date: Thu, 2 May 2002 07:38:23 -0700  
From: "=?iso-8859-1?B?TthCUw==?=" <n0bs@msn.com>  
To: <qrp-1@lehigh.edu>  
Subject: [125897] FS: 38 Special Kit  
Message-ID: <NFBBKGFDFGLNKCKOKBBOCAEJKCNAA.n0bs@msn.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 8bit

I have an unbuilt 38 Special kit if anyone is interested. It is an extra one I originally intended to put on 40m, but then got a DSW-40 instead. I think I robbed one of the mono caps from the kit for some other use somewhere along the way, so it may be short one cap. First \$25 takes it. Original manual included.  
Tom Moll N BS Mpls, MN

-----  
Date: Thu, 2 May 2002 08:43:51 -0400  
From: "Hartwell, Martin E, ALINF" <mehartwell@att.com>  
To: <qrp-l@lehigh.edu>  
Subject: [125898] RE: cabinet sold  
Message-ID: <6579C6377F475547985F0B3E426E162614053A@OCCLUST01EVS1.ugd.att.com>  
content-class: urn:content-classes:message  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="Windows-1252"  
Content-Transfer-Encoding: quoted-printable

Hi

The cabinet I advertized yesterday has been sold.

Marty Hartwell  
AT&T Columbus Ohio  
PH:614-501-2503

-----  
Date: Thu, 2 May 2002 10:08:47 -0500  
From: "Tony Parks" <robert.parks11@gte.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [125899] free 20 meter dipole antenna  
Message-ID: <000d01c1f1eb\$4366be60\$4535f143@3dse0>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a homemade 20 meter dipole to give away. The dipole is made with #12 copper wire and has about 25 feet of mini 8/u coax attached at the center

insulator. On the other end of the coax is a PL-259 connector. At each end of the dipole is an insulator with about 25 feet of nylon line attached. The antenna was used one season and seemed to work ok.

Free to the first person who is willing to pay shipping costs which should be around \$5-\$8.

73,  
Tony Parks  
KB9YIG

-----  
Date: Thu, 2 May 2002 08:54:56 -0700  
From: "Peter Shores" <pshores@socal.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [125900] Test equipment for sale  
Message-ID: <001001c1f1f1\$b4c4e720\$9e00a8c0@socal.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi,  
I, have some test equipment that I would like to sell

1. Hewlett Packard Signal generator model 8640B opt 323, 500 KHz to 512 MHz, will go to 1023 MHz if frequency doubler is used. I have a source for these doublers. Has AM, FM, pulse modulation. Unit is military version, solid state and in excellent working and cosmetic condition, less original field carrying case. Includes service/operation manual. Asking \$ 285.00 plus shipping from 92649. Approx weight with shipping box is 60 pounds.

1. Motorola portable signal generator, solid state model S 1318A. This unit was made by Measurements Instruments Corp. for Motorola. Unit is in excellent condition and comes with service/operation manual and attenuator pad. Highest frequency is 512 MHz. Asking \$ 150.00 plus shipping from 92649. Approx weight is 35 pounds.

1. Marconi signal generator, solid state, Model 52016-910C 10 KHz to 120 MHz, AM, FM, good working and cosmetic condition. No manual but they are available. Asking \$ 75.00 plus shipping from 92649. Approx shipping weight 22 pounds.

1. Motorola deviation meter model 920. This unit was made by Measurement instruments Corp. for Motorola. May be A.C. or battery operated, comes with service /operation manual. Asking \$ 35.00 plus shipping from 92649. Approx

shipping weight 12 pounds.

Hope someone out there has a need and can use this stuff.

Thanks,

Peter AD6TN

-----  
Date: Thu, 2 May 2002 11:59:22 -0400  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [125901] RE: Rebuttal of a technical article, should be on the merits  
Message-ID: <125490A005E3D3118C9C00805FC743CC040F3C8C@KAHLESS>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

> Even QST, with paid authors and editorial staff, has printed  
> some LuLus of  
> questionable information, like the time they let slip thru a  
> statement that  
> a clamp on current measuring device outside the coax could  
> measure the SWR  
> mismatch inside.

That is one of several. :-)

73,  
Ed Hare, W1RFI  
ARRL Lab  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
Internet: w1rfi@arrl.org  
Web: <http://www.arrl.org/tis>

ARRL is the National Association for Amateur Radio. It is supported by membership dues, individual contributions and the sale of publications and advertising. For more information about ARRL, go to <http://www.arrl.org/news/features/inside-your-league.html>. For more information about membership, go to <http://www.arrl.org/join.html>. Your contribution can also help support ARRL's ongoing efforts to protect Amateur spectrum. Go to <https://www.arrl.org/forms/development/donations/basic/> to learn more about the ways you can support the ARRL programs and activities of most importance to you. You can help ARRL protect Amateur Radio for you and future generations to enjoy.



-----  
Date: Thu, 2 May 2002 12:01:55 -0400  
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>  
To: Low Power Amateur Radio Discussion <grp-1@Lehigh.EDU>  
Subject: [125902] RE: St. Louis Verticals  
Message-ID: <125490A005E3D3118C9C00805FC743CC040F3C8D@KAHLESS>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

> Like any other ground-mounted, base-fed vertical, the SLV's radiated  
> efficiency is a function of the ground system beneath it.

That is true. The low-angle performance of a vertical antenna is also dependent on the characteristics of the ground many wavelengths away from the antenna. Over poor ground, a radial system will minimize the ohmic losses of the ground connection, but the poor ground outside the radial system can still absorb the low radiation angles.

73,  
Ed Hare, W1RFI  
ARRL Lab  
225 Main St  
Newington, CT 06111  
Tel: 860-594-0318  
Internet: w1rfi@arrl.org  
Web: <http://www.arrl.org/tis>

> -----Original Message-----  
> From: Paul Christensen [mailto:w9ac@arrl.net]  
> Sent: Wednesday, May 01, 2002 8:25 PM  
> To: Low Power Amateur Radio Discussion  
> Subject: Re: St. Louis Verticals  
>  
>  
> > running 200mW. Nobody was digging anyone out of the mud.  
> We have done  
> > several A-B antenna comparisons, with me switching between  
> the St. Louis  
> > vertical and my G5RV up 35 feet, a Butterworth vertical,  
> etc. Sure, the  
> > later antennas bring in a bit better signal, but a single S-unit  
> difference

> > at best.  
>  
> Like any other ground-mounted, base-fed vertical, the SLV's radiated  
> efficiency is a function of the ground system beneath it.  
> When camping, the  
> SLV is still my antenna of choice. I have no trouble  
> deploying 24 radials  
> of 24 AWG wire in less than ten minutes. With an adequate  
> radial system,  
> the SLV on 40-meters is easily capable of performance equal  
> to a dipole at a  
> quarter-wave in height...of course the SLV will have a much  
> lower angle of  
> radiation than the dipole and is not as good for distances up  
> to 400 miles  
> or so.  
>  
> -Paul, W9AC  
>

-----  
Date: Thu, 2 May 2002 12:27:11 -0400  
From: "carl seyersdahl" <carlseye@tampabay.rr.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [125903] items for sale  
Message-ID: <00a301c1f1f6\$3633d560\$d2af2341@tampabay.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Can't get to all these, so will sell, or would prefer to trade , for an  
swr-pwr meter like Autek WM1 or similar!!

Unbuilt kit--- wm20 from small wonder labs. I built one of these and it's  
a great little rig!! \$90.00,

including shipping!! will include a 100k 10 t. pot for tuning !!!

unbuilt kit---- From AADE ----- DFD2-- info available on Neil's web  
site!!

Will sell for \$ 45.00, shipping incl.

Two reduction drives-- Jackson bros.!!

I don't know what the value of these is so make an offer!!

DFD 1, built up . surplus to my needs now!! works fine!!! \$ 30.00 ,  
shipping incl.!!

no enclosures for any of these items!!!!

Please reply off list , direct!! thanks

carl kz5ca

-----  
Date: Thu, 2 May 2002 12:53:11 -0700  
From: "Glen Leinweber" <leinwebe@mcmaster.ca>  
To: "David Hinerman" <WD8CIV@worldnet.att.net>  
Cc: "qrp-l" <qrp-l@lehigh.edu>  
Subject: [125904] HF MOSfet amps - capacitance  
Message-ID: <000801c1f212\$fd54a2c0\$07ea7182@mcmaster.ca>  
MIME-Version: 1.0  
Content-Type: text/plain;  
          charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Dave Hinerman mentions that not all MOSfets are equal - for example, the IRF840 has an input capacitance at the gate of 1300 pf, while the IRF510 that we commonly see has 135 pf.

Don't take these numbers as absolute. Capacitance changes with bias, and doesn't include Miller capacitance from gate to drain.

Why does capacitance change from FET to FET?  
These devices have many hundreds or thousands of FETs all running in parallel, right on that single chip. The heftier FETs have more in parallel than the less-powerful ones. You can usually tell by the full-ON channel resistance....when this number is a small fraction of an ohm, its a BIG device, with a lotta fets in parallel. The IRF510 has a channel resistance (fully on) of about half an ohm. Not so many fets.

More parallel fets means more capacitance - capacitances in parallel add. Its that simple. We should use MOSfets in HF amps with low capacitance - they're easier to drive. The IRF510 on-resistance of half an ohm is plenty low enough for QRP with 12v supply. For a really powerful amp, you'd have to use a higher supply voltage, or a heftier MOSfet (and be prepared to drive its larger input capacitance with a more powerful driver stage).

Logic-level MOSfets can help too - they turn on with lower bias voltages, and are FULLY on when the gate is only +5v (instead of +10v for non-logic-level MOSfets).

If you only have to charge gate capacitance to 5v instead of 10v, less drive power is required. So a IRFL510 is better than standard IRF510.

-----  
Date: Thu, 02 May 2002 11:02:55 -0700  
From: Bob Welch <p326@earthlink.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [125905] Bencher for sale  
Message-ID: <3CD17F4F.38FA78F5@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Selling my back up paddle, a Bencher BY-1. Looking to buy additional accessories for my ft-817. The Bencher has a black base with chrome parts, it is in excellent condition. It also includes a custom dust cover made of clear thick plastic..

. It has a small rubber mat to place the paddle on. It weights 3 pounds, so it will not travel when you use it.

Price includes shipping in the lower 48. \$78. Payment by USPM0.

Please reply direct.

Bob, W8MCJ

-----  
Date: Thu, 2 May 2002 13:58:37 -0500  
From: <jfox6@houston.rr.com>  
To: "QRP" <qrp-l@lehigh.edu>  
Subject: [125906] Virus Information  
Message-ID: <000d01c1f20b\$5e3e7c80\$0924ae18@houston.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang,

Somehow, I ended up with a virus. The name of which is: BACKDOOR AUTOUPDER. Norton advised me that it was there. I tried to delete it... nil, I tried to repair it... nil, and I tried quarantine it... nil. I went to Symantec page, and searched for the name, found it, and they had

instructions on how to remove it. I did, and it worked!

In the event any of you need the URL it is:

<http://securityresponse.symantec.com/avcenter/vinfodb.html>

73,

Foxy

[jfox6@houston.rr.com](mailto:jfox6@houston.rr.com)

<http://www.qsl.net/w5hir>

-----  
Date: Thu, 2 May 2002 12:35:35 -0700  
From: "Peter Shores" <[pshores@socal.rr.com](mailto:pshores@socal.rr.com)>  
To: "Low Power Amateur Radio Discussion" <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [125907] Test equipment for sale  
Message-ID: <003401c1f210\$8adb2220\$9e00a8c0@socal.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The following items have been tentatively sold: Motorola Deviation meter,  
Motorola Signal Generator,

Thank you for the rapid responses.

Peter AD6TN

-----  
Date: Thu, 2 May 2002 12:42:38 -0700  
From: "Peter Shores" <[pshores@socal.rr.com](mailto:pshores@socal.rr.com)>  
To: "Low Power Amateur Radio Discussion" <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [125908] Test Equipment for sale  
Message-ID: <001101c1f211\$86ce08e0\$9e00a8c0@socal.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The HP 8640 B OPT 323 is tentatively sold.

Thanks to all

Peter AD6TN

-----  
Date: Thu, 2 May 2002 14:50:23 -0500  
From: "Walter AG5P" <walter@accessus.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>  
Subject: [125909] FS: Air Variable Caps, etc.  
Message-ID: <019f01c1f212\$99f22180\$c9466ad8@default>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi,  
Still making some more room in the little ham shack.  
ALL of the items are priced Including shipping.

NOTE- some of these are military equip pulls that all have  
a 1/4 inch shaft. The caps were measured with the AADE  
L/C meter II-B.

1) 22-950pf, General Instrument Corp "no loss" series, approx.  
2 1/4h x 4w x 4d, inches, pulled from military equip, good  
condx, \$15.00 ppd conus.

2) "A Matched Pair" 12-240pf, E.F. Johnson Co. #154-1-4,  
each is approx. 2 1/4h x 2 1/2w x 4d, inches, these are old  
new stock and are beautiful, and ready to be used in a "T"  
or Pi circuit tuner, etc, should be good to about 400 watts,  
\$25.00 ppd conus.

3) "A Matched Pair" 8-105pf, Hamarlund Mfg. Co. #9404-11-20003,  
each approx 1h x 1 3/4w x 3d, inches, military equip pulls, these  
are begging also to be in an antenna tuner, about the 100 watt class,  
\$15.00 ppd conus.

4) 16-80pf "Split Stator", Cardwell, type 197-B transmitting type,  
approx 2 1/2h x 4 1/2w x 5d, inches. Connect the 2 stators for  
160 pf, military equip pull, works fine, \$12.00 ppd conus.

5) 12-110pf "Split Stator", stamped GE, heavy built with ceramic  
insulators, transmitting type, approx. 2h x 2w x 4d, inches.  
Connect the 2 stators for 220 pf, military equip pull, good condx,  
\$12.00 ppd conus.

6) "3 OF A KIND", 5.5-12pf units, these 3 are E.F. Johnson Co #12G70, transmitting type, 2h x 2w x 3 1/2d, inches, military equip pulls, it is rare to find 3 alike, good condx, \$15.00 ppd conus.

7) 16-365pf, no name but has a Circle C & made in U.S.A. #MR-365-BS, transmitting type, approx. 1 1/2h x 2 1/2w x 4d, inches, quality military pull for a tuner, crystal radio, etc, \$12.00 ppd conus.

8) 14-450pf, Dual Gang 28-900pf total, no name but part # R/C273-6326-1795, receiver type (small spacing but ok for qrp), approx. 1 1/2h x 2w x 3d, inches, military pull, for qrp tuner, crystal radio, etc, good condx, \$10.00 ppd conus.

9) "Pair" 2ea - 6-200pf units with a backlash gear, no name but part # 4572-1106244, receiver type (small spacing), approx. 1 1/2h x 2w x 3d, inches, military pull and looks like new, \$10.00 ppd conus.

10) "Coupled Pair", what a nice unit for a larger tuner, has 2 capacitors 25-140pf each, coupled together with a 90 degree geared tuning shaft (1/4"). It is mounted on a plexiglass piece and can be re-mounted. No name on the caps, but #5032-7321 numbers on the caps. Approx size including the tuning gear drive is 2 1/2h x 10w x 3 1/2d, inches, caps are military pulls, good condx, \$30.00 ppd conus (they are heavy!) see pg. 166 in Solid State Design, left hand bottom pix.

11) A little something different 5 ea, SPST ceramic knife switches by Levitron, approx. 1h x 1w x 2 1/2, inches, good condx, \$10.00 ppd conus.

12) Another something different 2 ea, DPST ceramic knife switches by Levitron, 25 amp 125 volt ratings, approx. 2h x 2w x 3d, inches, good condx, \$10.00 ppd conus.

Thank you for taking the time to read this lengthy email, let me know if there is something that you need.

72 / 73 Walter Dufrain, AG5P.....Wright City, MO

-----

Date: Thu, 2 May 2002 15:24:44 -0500  
From: "Tony Parks" <robert.parks11@gte.net>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [125910] 80m PSK31 Warbler for sale  
Message-ID: <001301c1f217\$6719d3c0\$c312f143@3dse0>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a 80m PSK31 Warbler for sale, board only - no case. The unit was carefully built from a kit and the circuit board is marked NJ QRP 9/00. I have used the board for PSK31 receive on a few occasions but never transmitted. Send me an e-mail directly if you are interested in the unit at \$20.

Thanks,  
Tony Parks  
KB9YIG

-----  
Date: Thu, 2 May 2002 16:47:49 -0400  
From: "Ron Polityka" <wb3aal@fast.net>  
To: ". QRP-L" <qrp-1@lehigh.edu>  
Subject: [125911] Flying Horse 2001 CD-ROM  
Message-ID: <002101c1f21a\$9f674020\$b3e65cd1@wb3aal>  
MIME-Version: 1.0  
Content-Type: text/plain;  
                charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Hi,

I have the Flying Horse Radio Amateur Call Book Winter CD-ROM 2001 for sale.

\$20.00 and I will ship to your home.

First e-mail will receive it.

72  
Ron Polityka  
WB3AAL  
[www.n3epa.org](http://www.n3epa.org)



-----  
Date: Thu, 2 May 2002 17:14:17 -0400  
From: "Ken Newman" <n2cq@dandy.net>  
To: "N4SO" <N4SO@Juno.com>, "W3BG" <W3BG@arrl.net>,  
      "N9AVG" <N9AVG@amsat.org>,  
Subject: [125912] [CONTEST] N2CQ QRP Contest Calendar - May 2002  
Message-ID: <003601c1f21e\$530bafa0\$fc881c42@18.95.182.twsn1.md.home.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
              charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

~~~~~  
                  QRP CONTEST CALENDAR

                  May 2002

~~~~~  
AGCW DL QRP Party (CW) ... QRP Contest!

May 1 -1300z to 1900z

Rules: <http://www.sk3bg.se/contest/agcwqqp.htm>

European mostly QSO party"

~~~~~  
MARAC County Hunters Contest (CW)

May 4 - 0000z to May 5 - 2400z

Rules: <http://www.countyhunter.com/cwrules2002.htm>

"Mobile Stations everywhere"

~~~~~  
Ten-Ten International Spring QSO Party (CW) ... QRP Category

May 4 - 0000z to May 5 - 2400z

Rules: <http://www.sk3bg.se/contest/1010spqp.htm>

"Ten meter fans will be there"

~~~~~  
Indiana QSO Party (All) ... QRP Category

May 4 - 1300z to May 5 - 0500z

Rules: <http://www.qsl.net/kj9d/inqp/>

"Work Indiana Counties"

~~~~~  
New England QSO Party (Phone/CW) ... QRP Category

May 4 - 2000z to May 5 - 0300z

May 5 - 1100z to May 5 - 2400z

Rules: <http://www.neqp.org/>

"Work Lots if W1 Counties"

~~~~~  
ARI International DX Contest (Italian) (CW/SSB/RTTY)

May 4 - 2000z to May 5 - 2000z

Rules: <http://www.sk3bg.se/contest/aridxc.htm>

"Everyone works everyone"

~~~~~  
Adventure Radio Spartan Sprint (CW) ... QRP Contest!

May 7 - 0100z to 0300z (Monday evening US/Canada)

Rules: [http://www.natworld.com/ars/pages/spartan\\_sprints/ss\\_rules.html](http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html)

"Testing of lightweight radio gear suitable for outdoor QRP expeditions"

~~~~~  
Nevada QSO Party (All)

May 11 - 0000z to May 12 - 0600z

Rules: <http://www.sk3bg.se/contest/nevqp.htm>

"Work NV Counties"

---

Oregon QSO Party (All)

May 11 - 1400z to May 12 - 0200z

Rules: <http://www.arrl.org/contests/months/may.html>

"Work OR Counties"

---

FISTS Spring Sprint (CW) ... QRP Category

May 11 - 1700z to 2100z

Rules: <http://www.fists.org/sprints.html>

"WHEN YOU'VE WORKED A FIST, YOU'VE WORKED A FRIEND"

---

CQC PSKontest 2002 (PSK 80-10m) ...QRP Contest!

May 11 - 1900z to May 12 - 0100z

Rules: <http://www.cqc.org/>

"PSK..The most popular new mode."

---

CQM International DX Contest (CW/SSB/SSTV) ... QRP Category

May 11 - 2100z to May 12 - 2100z

Rules: [http://www.mai.ru/~crc/cq-m/cqmain\\_e.htm](http://www.mai.ru/~crc/cq-m/cqmain_e.htm)

"Peace to the world"

---

Dayton Hamvention (QRP Event - FDIIM)

May 17-19

Info: <http://www.hamvention.org/>

~~~~~  
Anatolian RTTY WW Contest (Turkey)

May 17 - 1800z to May 18 - 2100z

Rules: <http://www.qsl.net/ta9j/anatolianeng.htm>

"RTTY All Bands"

~~~~~  
HIS MAJESTY THE KING OF SPAIN CONTEST (CW)

May 18 - 1800z to May 19 - 1800z

Rules: <http://home.online.no/~janalme/rules/eaking.txt>

"Work Spain Stations"

~~~~~  
Baltic Contest (CW/SSB) (80 Meters)

May 18 - 2100z to May 19 - 0200z

Rules: <http://home.online.no/~janalme/rules/baltic.txt>

"Promote Radio Sport. Work anyone"

~~~~~  
CQWW WPX Contest (CW) ... QRP Category

May 25 - 0000z to May 26 - 2400z

Rules: <http://home.woh.rr.com/wpx/2002Rules.PDF>

"Great DX"

~~~~~

QRP ARCI Hoot Owl Sprint (CW) ... QRP Contest!

May 26 - 2000 to 2400 (Local Time)

Rules: <http://personal.palouse.net/rfoltz/arci/hoot.htm>

"QRP Fun"

~~~~~

Michigan QRP Memorial Day Sprint (CW) ... QRP Contest!

May 27 - 2300z to May 28 - 0300z

Rules: <http://www.qsl.net/miqrpclub/rules01.htm>

"Bonus Points on HB Equipment"

~~~~~

Thanks to LA9HW, SM3CER, WA7BNM, ARRL and others  
for assistance in compiling this calendar.

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and  
we will post it and give it more publicity.  
Anyone may use this "N2CQ QRP Contest Calendar" for your website,  
newsletter, e-mail list or other media as you choose.  
(Include a credit to the source of this material of course.)

72 de

Ken Newman - N2CQ  
N2CQ@ARRL.NET

\*\*\*\* QRP Contest Calendar \*\*\*\*

<http://www.njqrp.org/data/contesting.html>  
<http://www.n3epa.org/Pages/Contest/contest.htm>  
<http://www.qsl.net/cqrp/contests.html>

-----

End of QRP-L Digest 2543

\*\*\*\*\*